

## 4. Index fossils (species) confined to a certain stratigraphical unit:

Cenomanian:	<i>Gavelinella cenomanica</i> (BROTZEN), <i>Pseudotextulariella cretosa</i> (CUSHMAN), <i>Marginulina muelleri</i> REUSS, <i>Marginulina aequivoca</i> REUSS, etc.;
Lower Turonian:	<i>Gavelinella rudis</i> (REUSS)
Middle Turonian:	<i>Gaudryina ruthenica</i> REUSS, etc.

5. Members of phylogenetic series, which are considered by F. BETTENSTAEDT (1960) to constitute the most reliable group; *Neoflabellina deltoidea* (WEDEKIND) occurs only in the Lower Coniacian, whereas *Neoflabellina sphenoidalis praecursor* (WEDEKIND) is known only from the Upper Coniacian of the Cretaceous of Bohemia.

A range chart referring to the above data was handed out to the attendants of the lecture.

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## Palynology of the Carboniferous of the Bohemian Massif

### (Abstract)

The Geological Survey, Prague, carried out a palynological research in the Bohemian Massif especially in the Carboniferous system. Both megaspores and microspores from the coal seams (of Westphalian B-C — Stephanian age) were studied.

The megaspore investigation in the Plzeň Basin has shown that megaspore studies are a useful aid in local seam correlations.

The results of microspore studies carried out in three main basins of the Central Bohemian Carboniferous complex (Kladno—Rakovník, Plzeň, Mšeno basins) were summarized and stratigraphically evaluated.

Two bore-holes in eastern Bohemia may be taken as examples showing that it is possible to use palynology in determining the age of the rocks containing neither coal nor macrofossils.

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MAGDA KONZALOVÁ

## Paleophytoplankton in geological research

### (Abstract)

The application of phytoplankton investigation in stratigraphic paleontology is outlined. It involves the preparation technique and the general characteristic of various groups of planktonic microfossils — *Acritarcha*, *Dinoflagellates*, green and blue-green algae — known from marine and brackish-marine sediments. The progress of microplankton-research in the Bohemian Massif in the Upper Proterozoic, Early Paleozoic and Upper Mesozoic is outlined. Particular attention is paid to the most characteristic microfossils, their assemblages and geological occurrence. Practical use in stratigraphy and geology is shown.

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